BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE ELECTRICAL DIVISION

Name of the work :- Detaild Estimate for Repairs and Shifting of Existing High masts to Road side and trenchless cabliing work in Yelahanka zone.

Estimate No. 24/24-25 **Budget Head:**

Est Cost Rs. **1000000.00**

Sl. No	SR Page No	Description	Unit	Qty	Rate	Amount
1	46/11.9.7	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency> 1301m/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL / CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Floodlight 240W	Each	18.00	22068	397224
2	56/13.5	Fixing halogen/metal halide /SVL/IL/LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	18.00	162	2916.00
3	6/2.5.18	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100 Volts as per IS-694:1990 **6C x 4 mm2**	m	50.00	302	15100
4	A-45/76	Mobile Hydraulic Crane 20 t capacity	hr	38.00	1132	43016.00
5	5/ 1.4.2 Vol-1 KPWD SR 2023-24	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m	m^3	7.90	259.00	2046.1
6	18/ 2.11 Vol-1 KPWD SR 2023-24	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/ tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.Building	Kgs	105.00	89.45	9392.25

7	15/ 2.1.3 Vol-1 KPWD SR 2023-24	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates (15/ 2.1.3 Vol-1 KPWD SR 2023-24)	Cums	0.65	5989.00	3892.85
8	15/ 2.2.1 Vol-1 KPWD SR 2023-24	Providing and laying in position Cement Concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (15/ 2.2.1 Vol-1 KPWD SR 2023-24)	Cums	2.30	6287.00	14460.10
9	52/174/21.05 CSR 2023-24	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff.2.5 to 25 Sqmm LT Cable	KM	0.4	20886.00	8354.4
10	13/204/32.08 CSR 2023-24	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975. 25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm)	KM	0.4	179844.00	71937.60
11	CSR 2023-24 1.17.1	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm wherever necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata.All kinds of soils. Depth upto 1.50 m	m^3	65	262	17030.00
12	21/48.01 CSR 2023-24	1.1 kV Class HR (Heat Resistant) PVC Insulated & Sheathed Aluminium Single Core Lead wires as per IS-694: 2010 PVC Wire - 2.5 Sqmm Weight per 100 Mtr Coil: 1.8 Kg	Coil	2	1484.00	2968
13	23/51.04 CSR 2023-24	Rod type of earthing using 40 mm Dia, 3 Mtr long MS rod as ground rod, in earth pit of 300 mm width and 3300 mm depth and using 50x6 mm flat welded to ground rod as terminal & connected to equipment ground terminal using PVC Al wire as specified	No	4	2172.00	8688.00
14	20/5.42.2 CSR 2023-24	Fabricating supplying and mounting MS box made out ....SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16 SWG	cm 2	120000	0.43	51600
15	20/5.41.2 CSR 23-24	Supplying and fixing angle iron frame work fabricated out of M.S.angle iron.. and M.S. Flat.....with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.50 x 50 x 6 mm	m	20	395.00	7900.00
16	21/5.47	Supplying and fixing Microprocessor based Electronic timer (without contactor, Din Mounting using necessary bolts, nuts and washers etc.,.) 3-120sec setting	Each	5	2315	11575
17	16/5.14.6 CSR 23-24	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.95/100 A	Each	6	16606.00	99636.00

18	17/5.15.9 CSR 23-24	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% Ics). In 4P MCCB, all Poles should have protection for Short-Circuit/Over Load.For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism.FOUR POLE100Amps 25kA.	Each	5	8487.00	42435
19	17/5.18.1 CSR 23-24	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Each	6	415.00	2490.00
20	CSR 2023-24/3.9	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N. F. screws	cm2	26000	0.35	9100
21	30/66.04 CSR 23-24	Optical Fibre Cable (OFC) and its Accessories.HDPE/PLB Pipe 50/42 mm	Km	0.3	85014.00	25504.20
		Total				847265.50
		GST 18 % on Item no 1 to 24				152507.79
		bescom charges				226.71
		TOTAL				**1000000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on CSR 2023-24 , KPWD Vol-1 CSR 2023-24 and Approved Rates.

Asst./Junior Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 10,00,000/-
Rupees TEN LAKHS ONLY
is accorded PO 298 M and R to ELECTRICAL Installation in park and Gardens play Ground
Registered 38/24.25 Subject
to cond
No. BBMP/EE(Elec)/42/AS/33/24.25
Dt 08-11-2024
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 10,00,000/-
Rupees Rupees TEN LAKHS ONLY
Under PO 298 M and R to ELECTRICAL Installation in park Gardens
Registered 08/24.25
Subject
endorsed in BBMP/EE(Elec)/42/AS/33/2024
Dt 08-11-2024
Recommended/Sanctioned
BBMP/EE(Elec)/42/TS/08/2024.25
Dated 08-11-2024 Rs. 10,00,000/-
Executive Engineer